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[JUNE,

THE HOME FARM.

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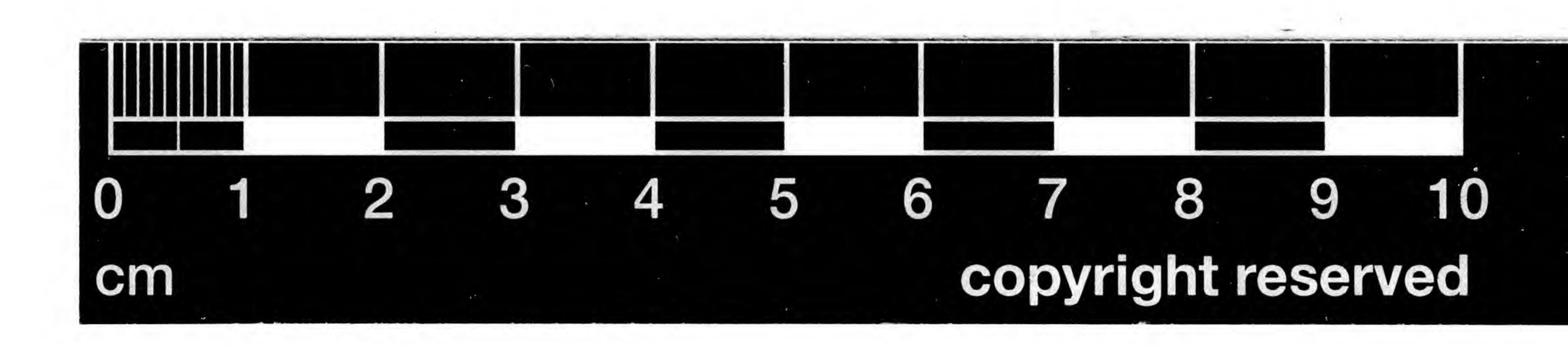
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OPERATIONS FOR JUNE.

The Flock.—Wash and shear sheep, allowing an interval of 8 or 10 days between the operations, so that the yolk may rise into the wool, thereby improving its quality and increasing the weight. From 3s. to 3s. 6d. per score, according to the size of the sheep, with beer, or beer-money, is about the usual rate of payment. Dip lambs a few days after shearing the ewes. Push forward barrens and wether tegs with a little cake or corn daily.

The Turnip Crop.—This will be the season for getting in the main crops in the midland and southern counties. Swedes come first, next hybrid kinds, then the yellow and white-fleshed varieties. During a dry season plough the land intended for such crops as little as possible, but clean and obtain a good tilth by a free use of scarifier, harrows, and roller, in order to retain the moisture in the soil. Heavy lands



MISSOURI BOTANICAL GARDEN

MISSOURI BOTANICAL GARDEN GEORGE ENGELMANN PAPERS

1880.] Forest Work for the Month.

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bark being ricked in fine condition. As far as yet ascertained the price of oak bark will range rather low this season. In plantations where peeling has been carried on, collect all the spray into heaps or have it removed altogether, so as to clear the ground for the young growth to come up.

Towards the end of the month look over your plantations and see that ferns, &c., do not interfere with the growth of the small trees.

This is an important item for the forester to guard against.

Besides the usual routine of repairing roads and fences, this is a good time to begin operations for protecting river-sides. Such work should always be done as early in the season as possible, so that embankments, bulwarks or such like undertakings may be consolidated before the customary floods usual in autumn. Everything in the way of water-work ought to be done during the summer months.

Ballina courte.

D. SYM SCOTT.

CURRANT BUSHES ON RAILWAY BANKS.—In the last number of the Flore de

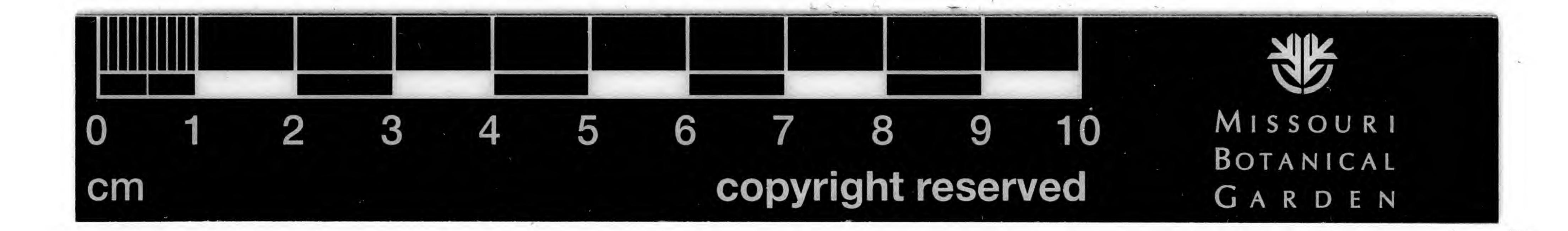


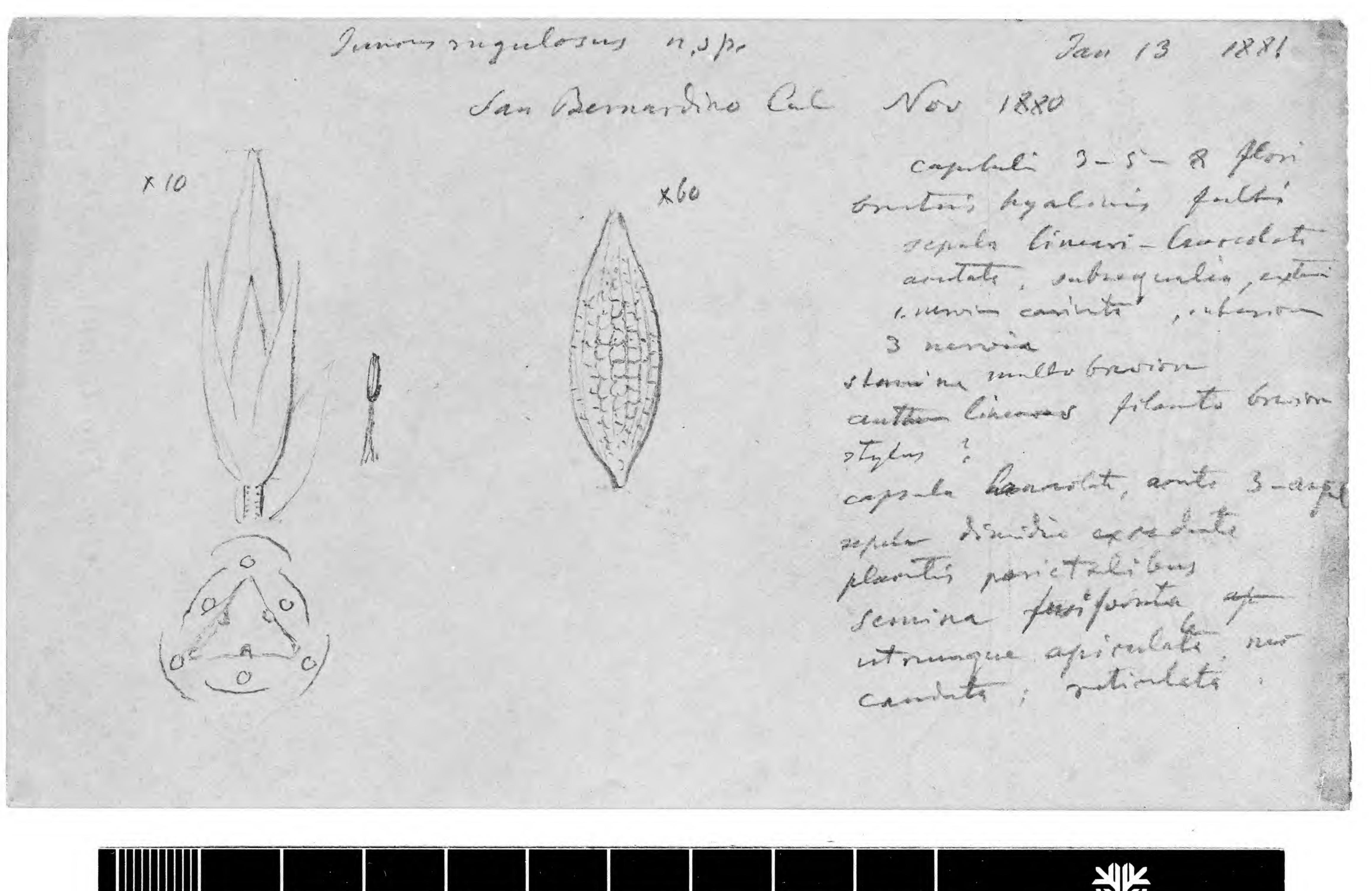


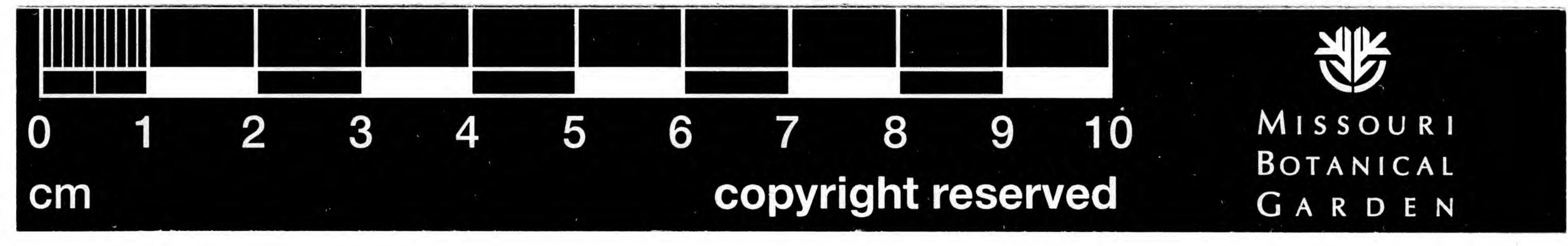
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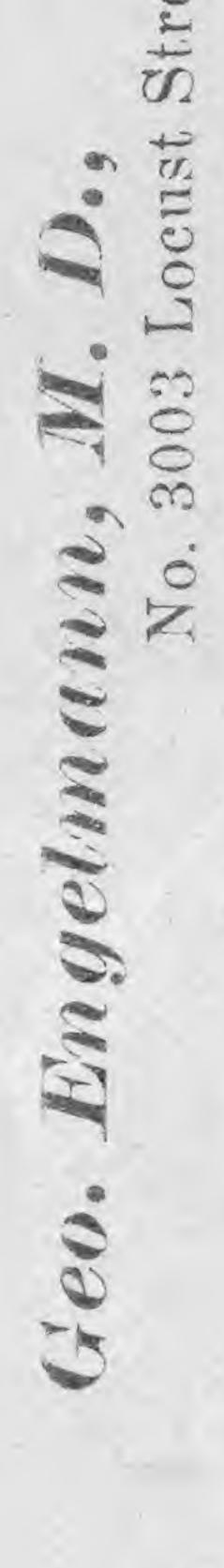


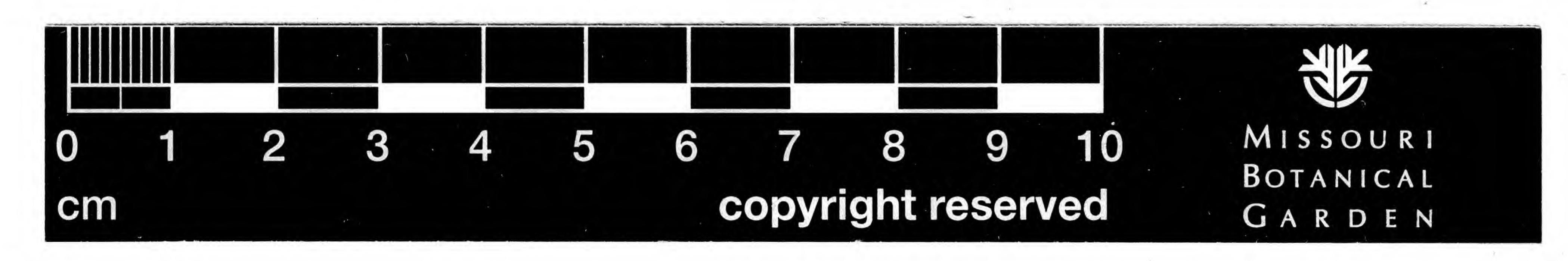


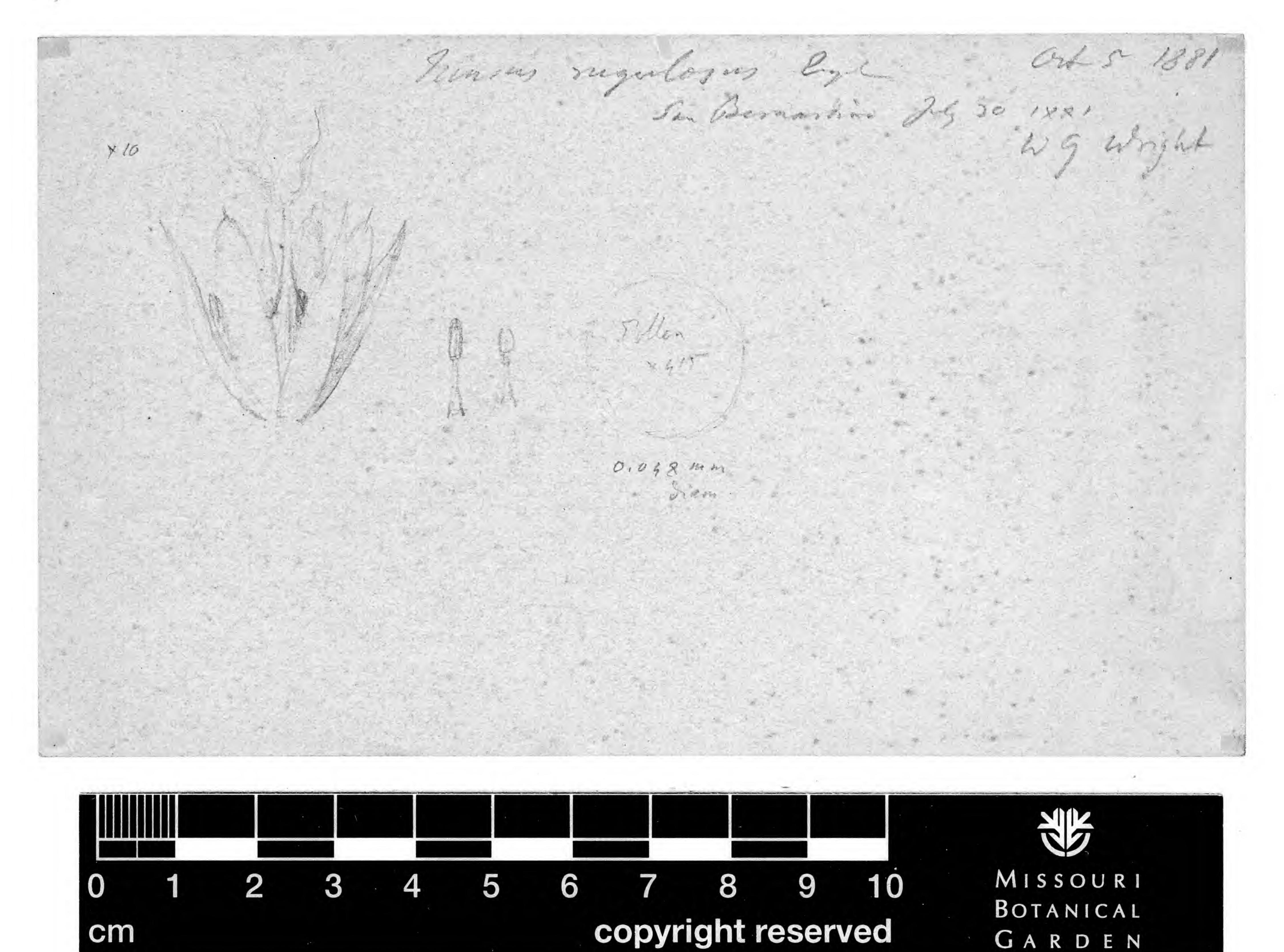


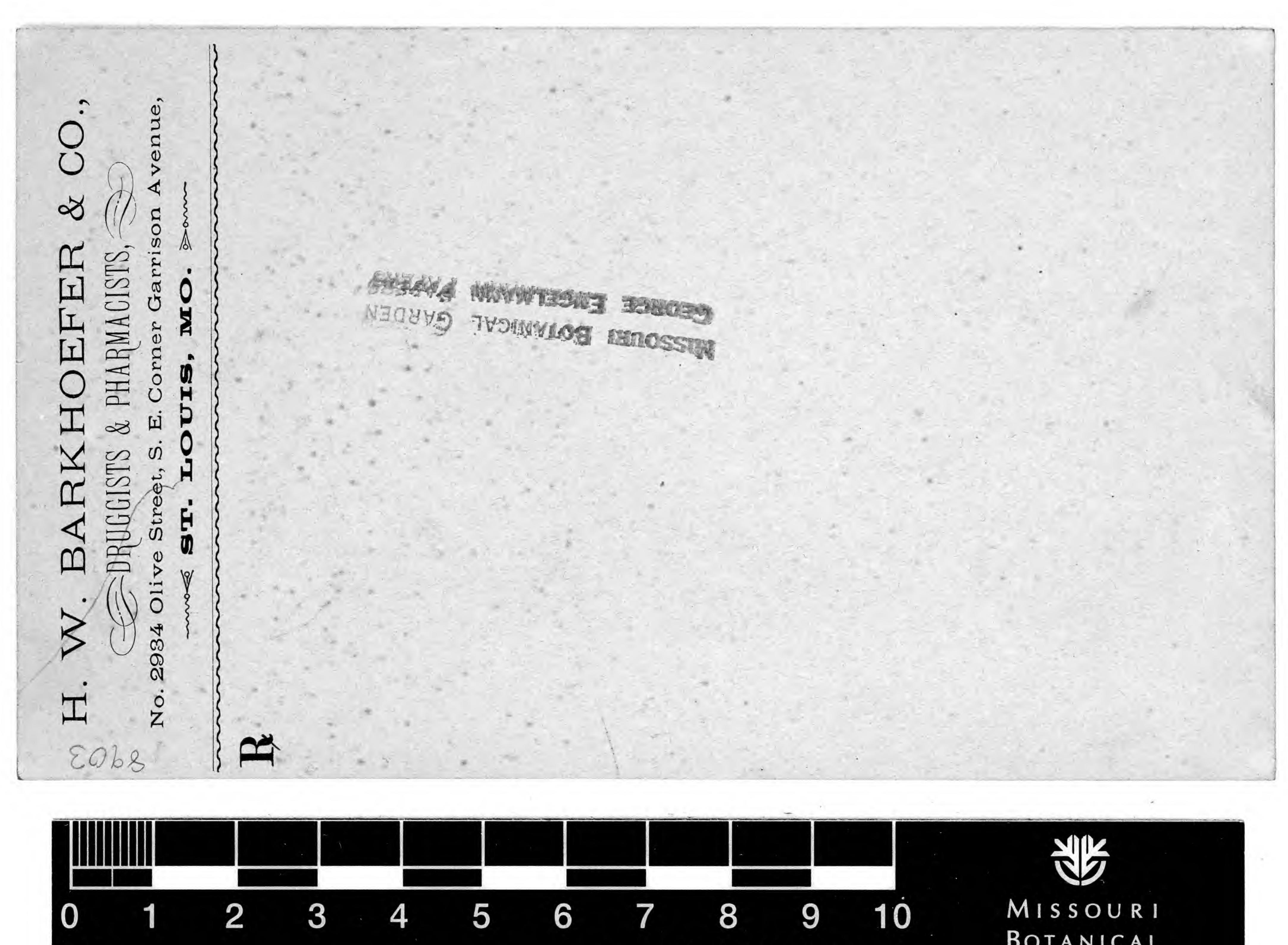




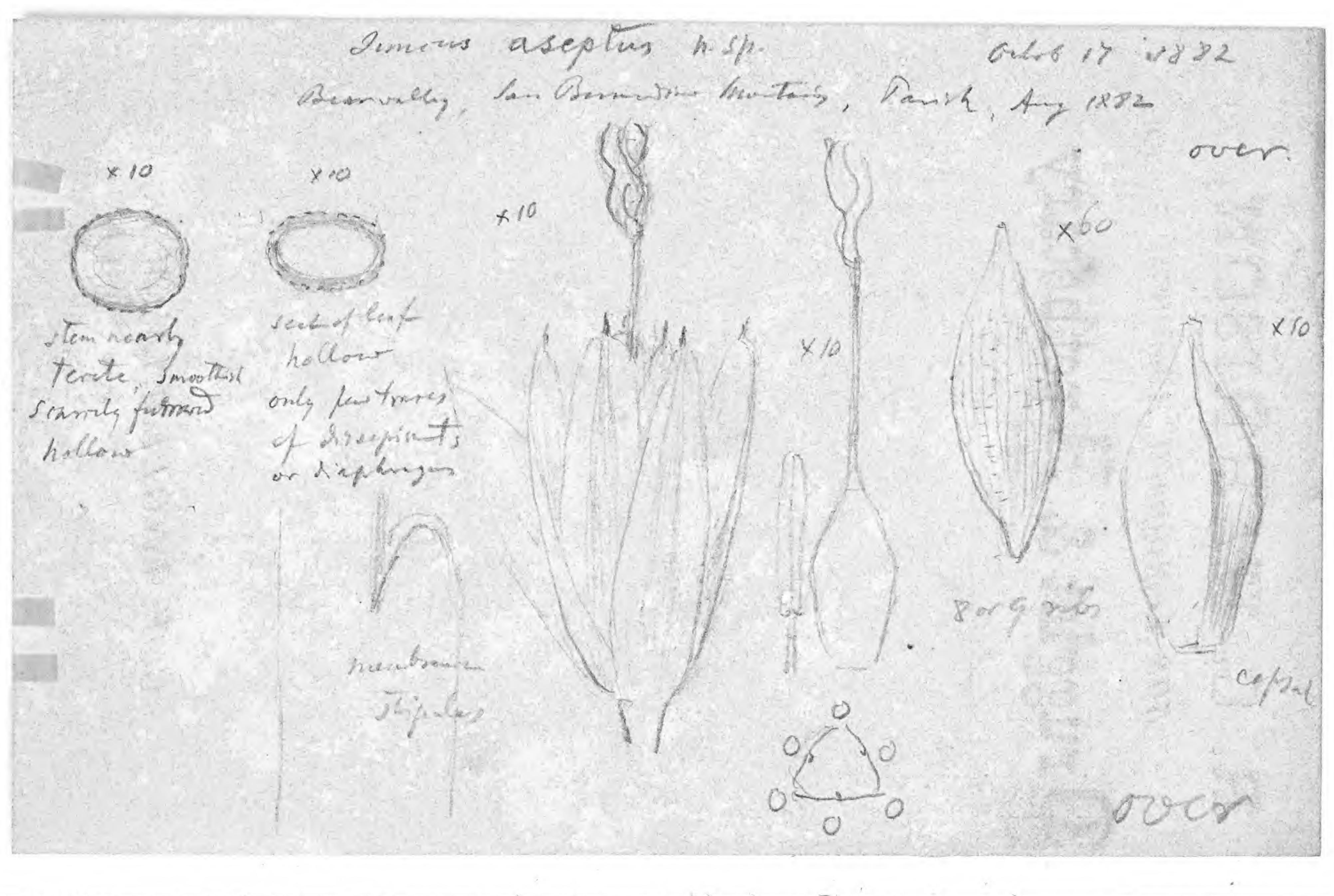








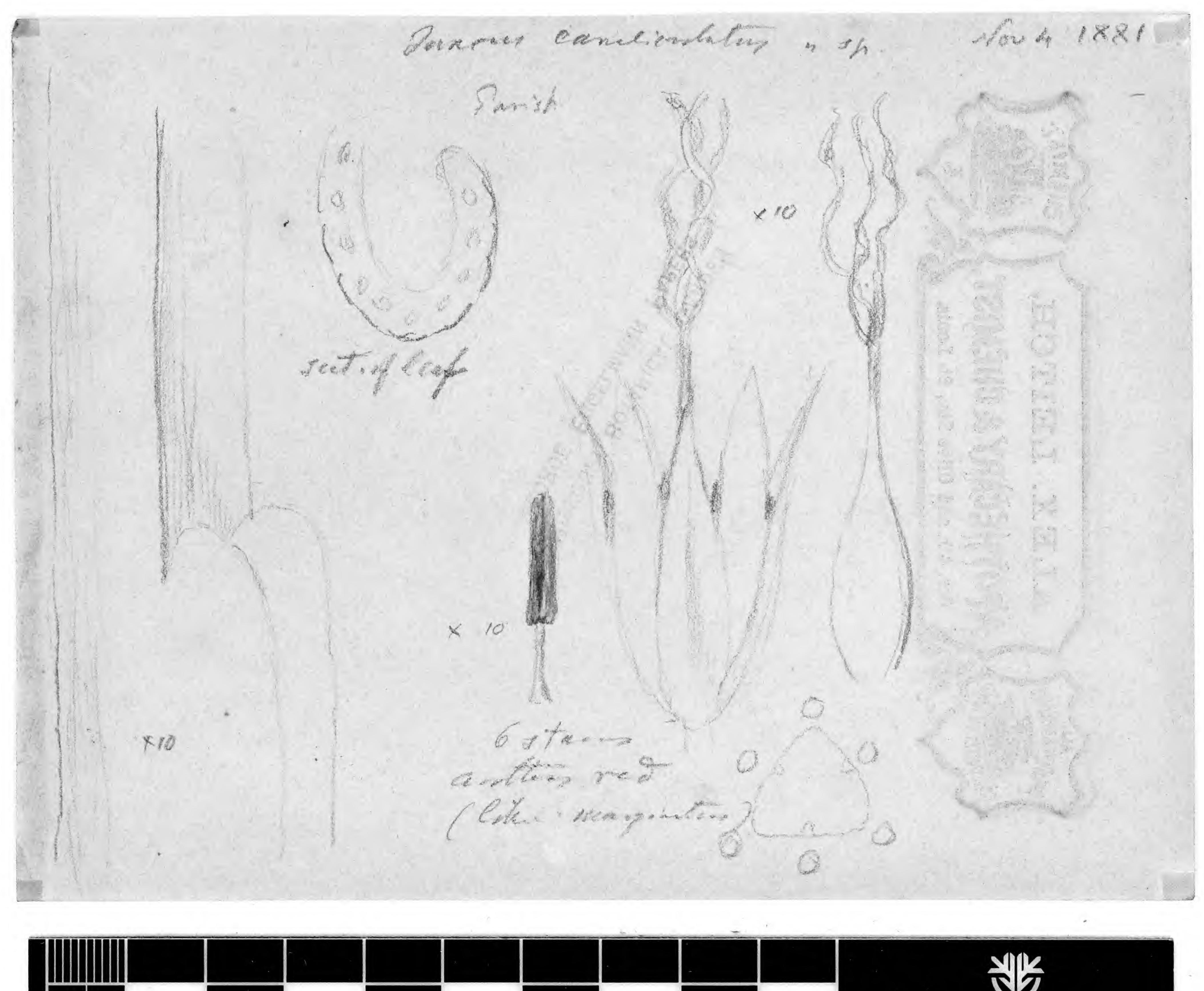


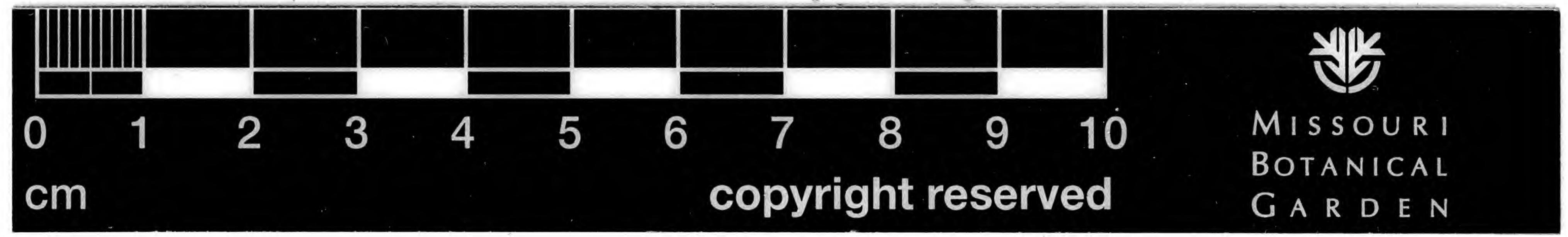




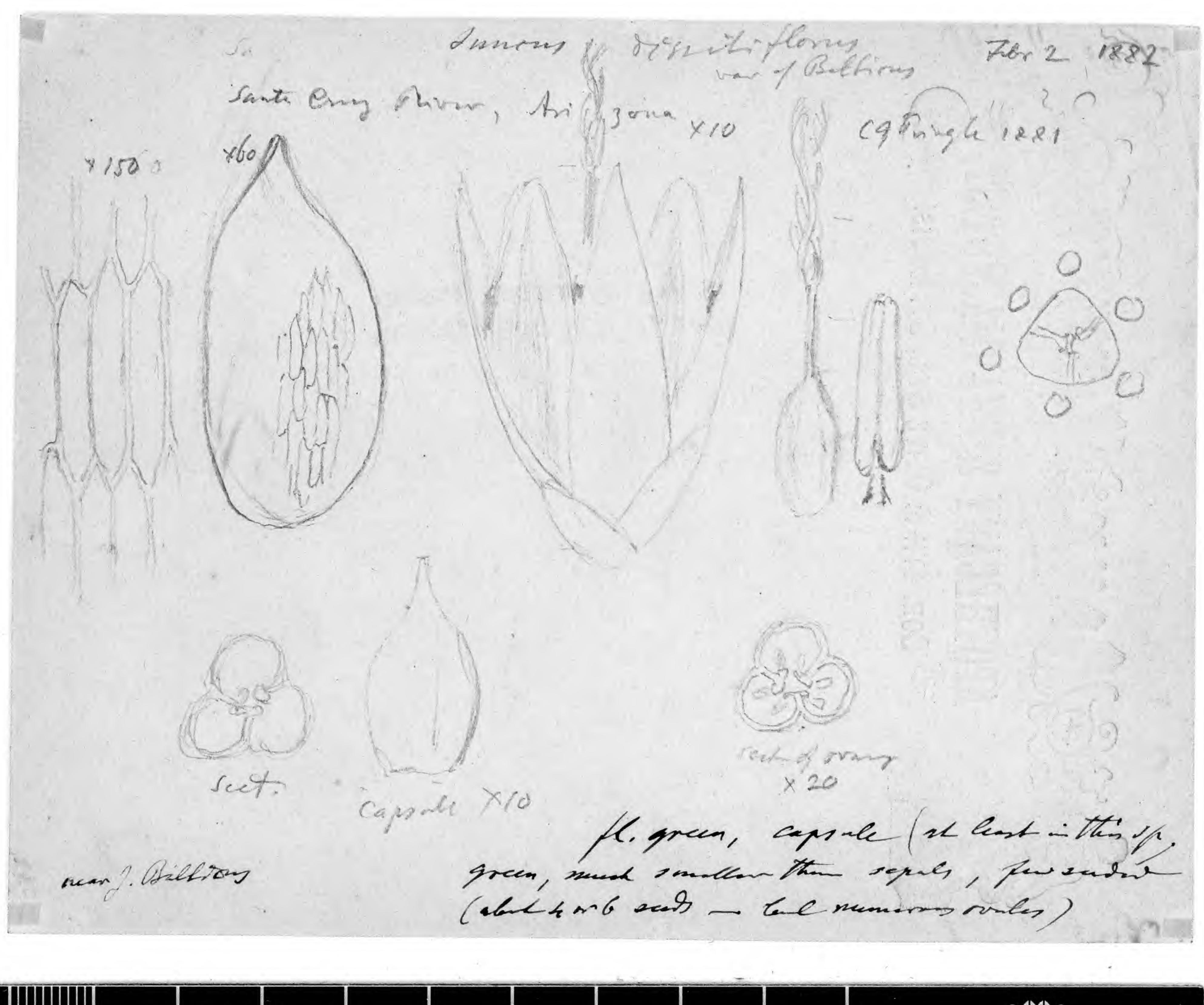
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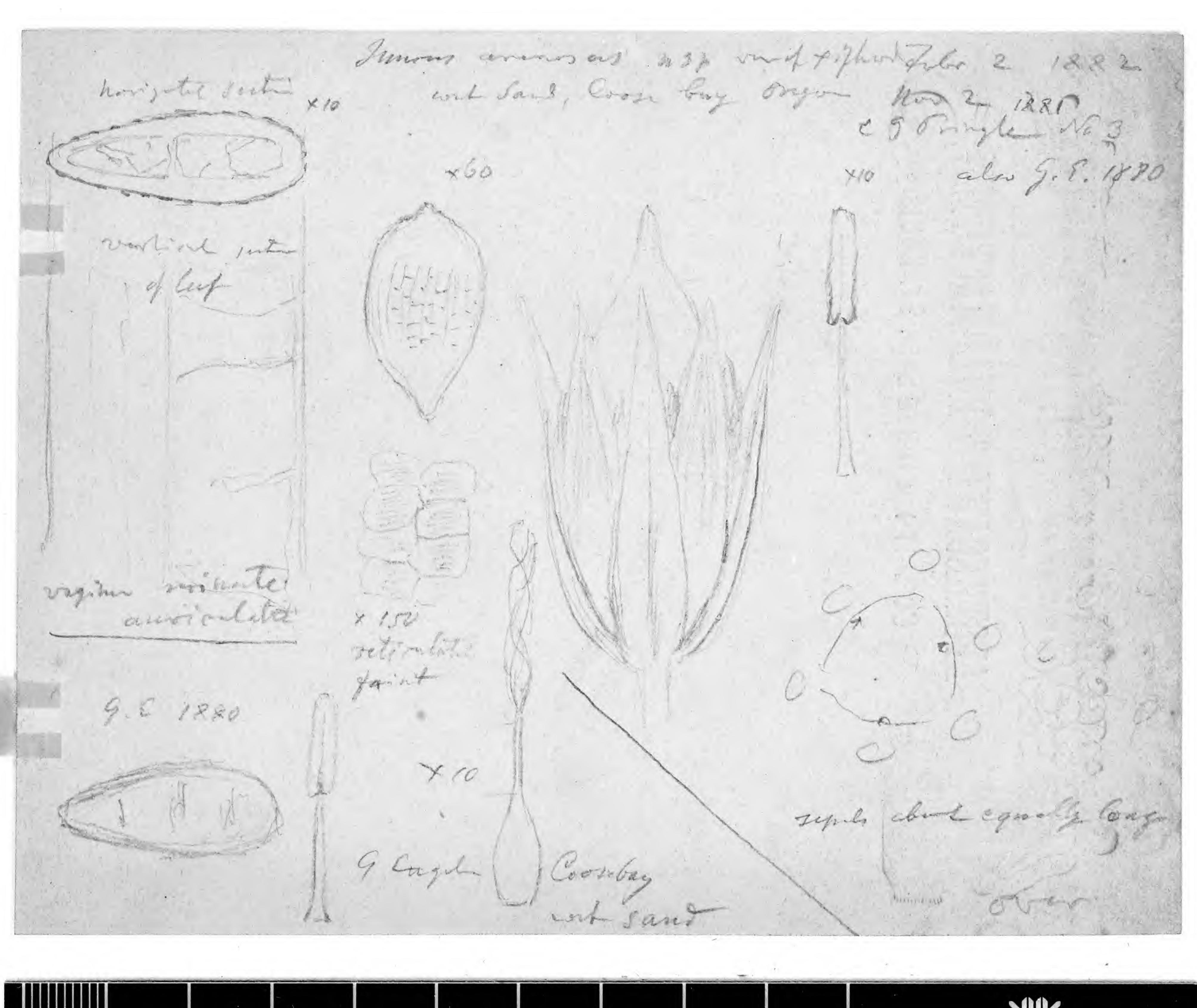




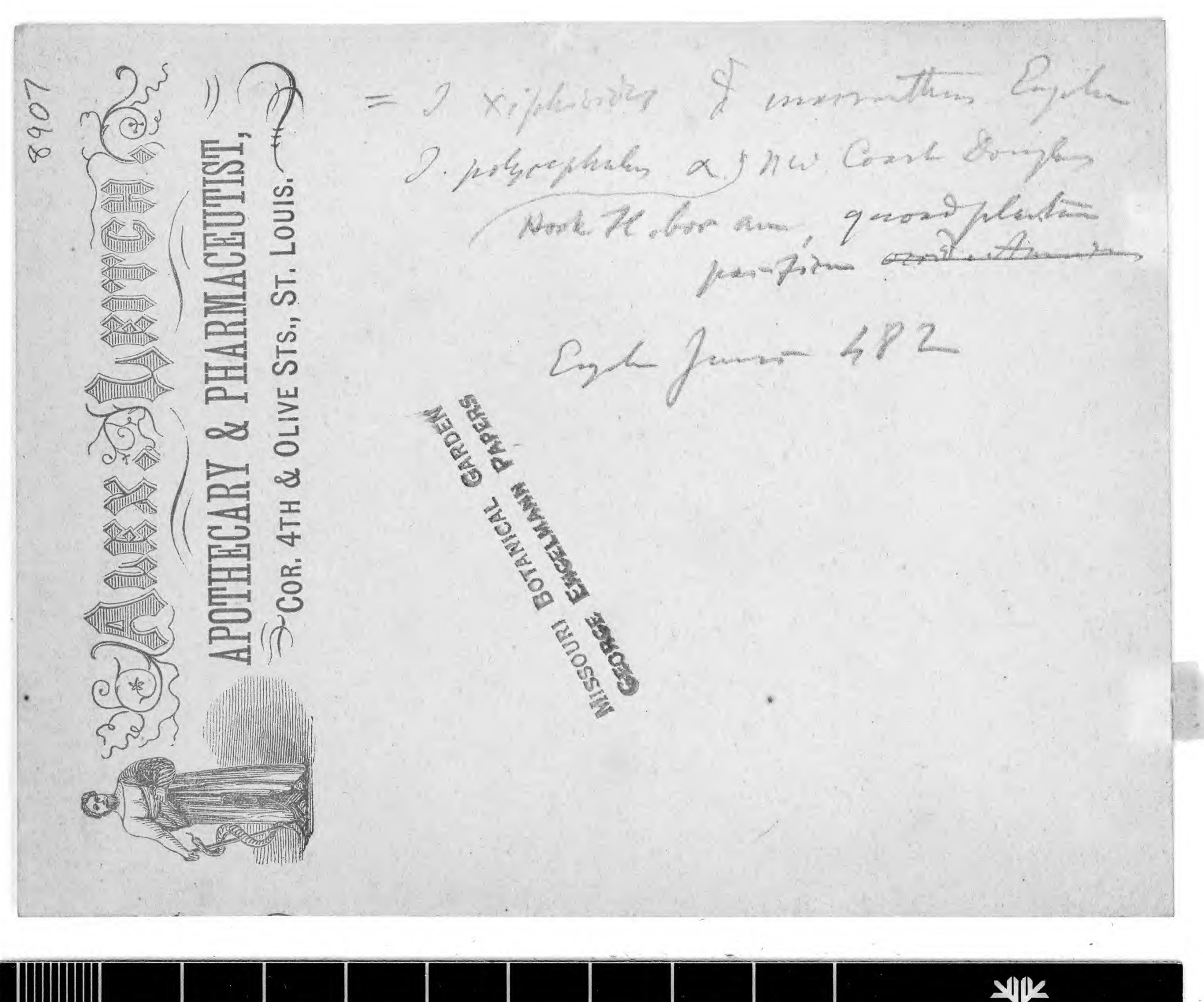


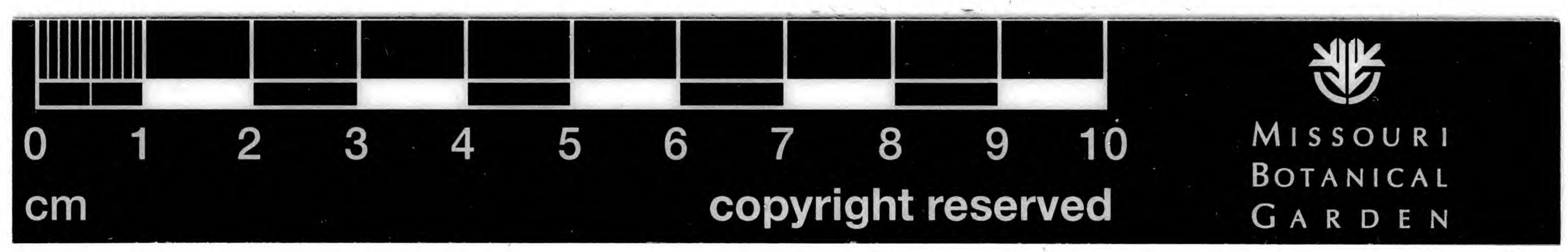
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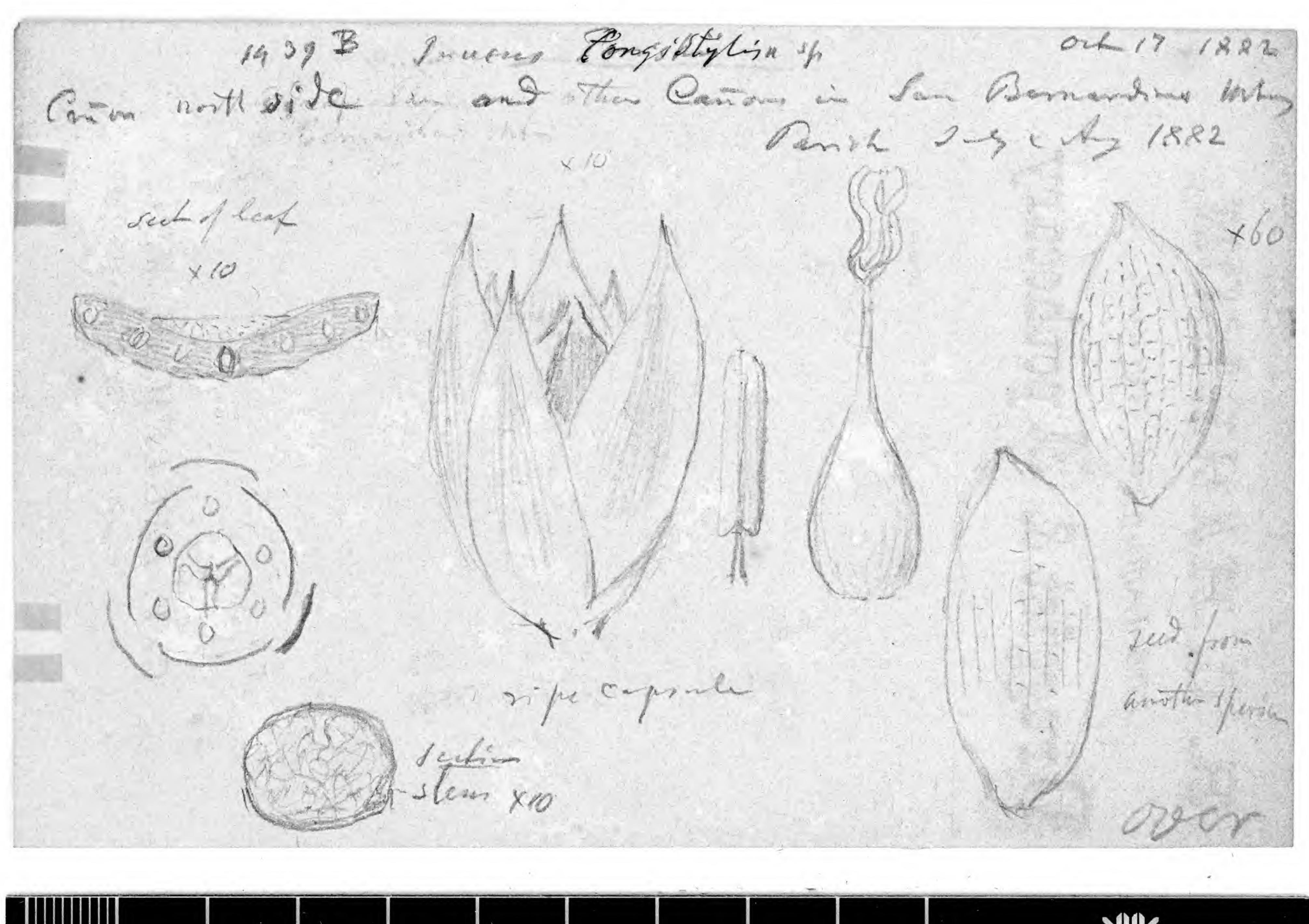


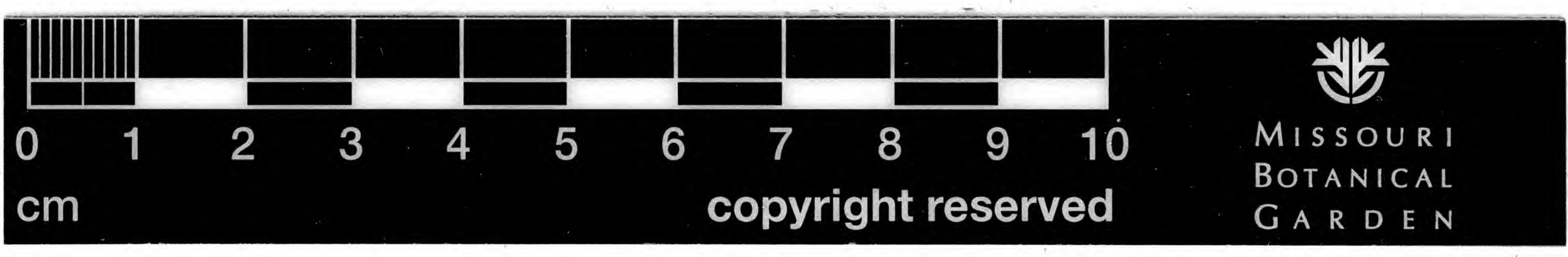






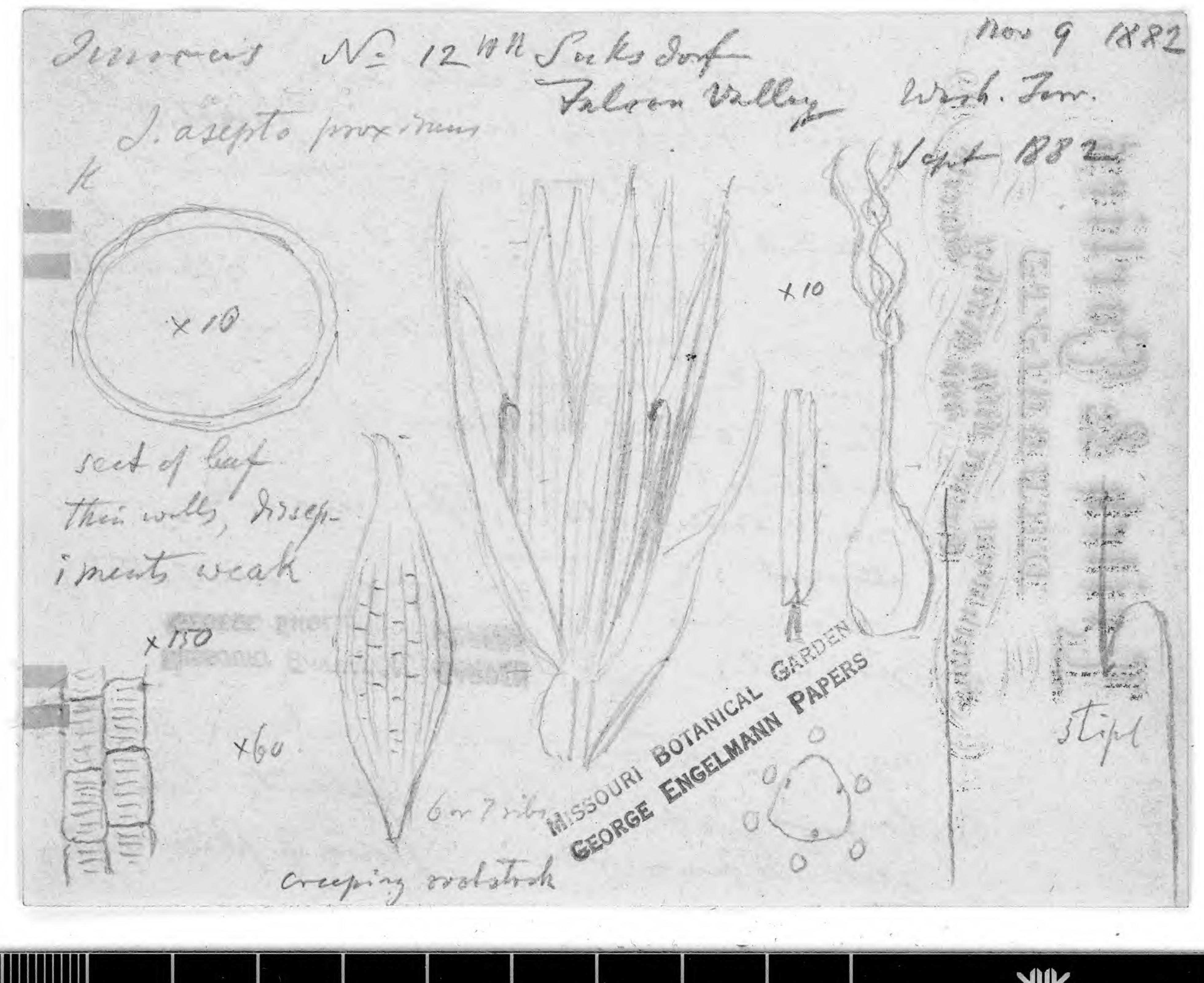




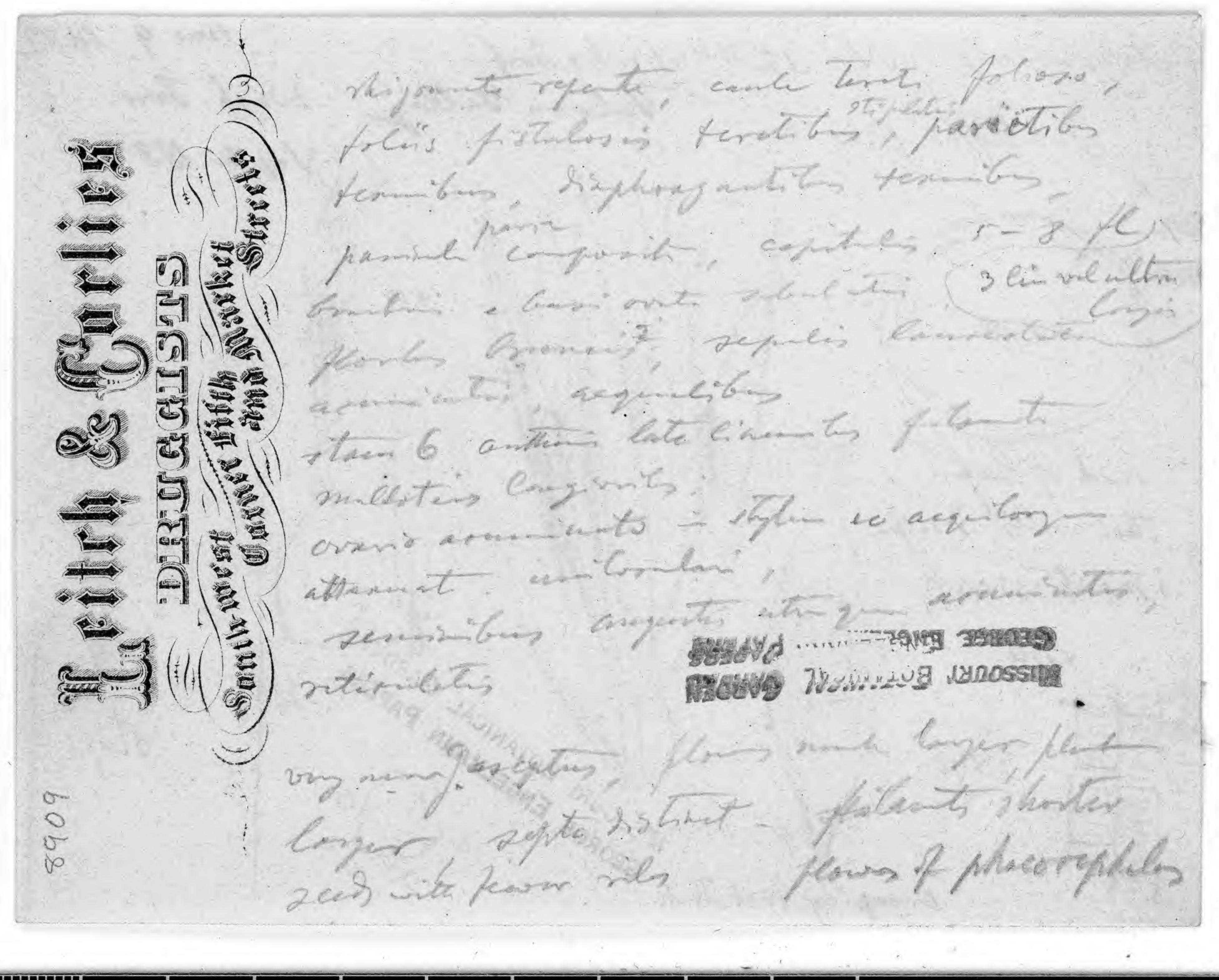


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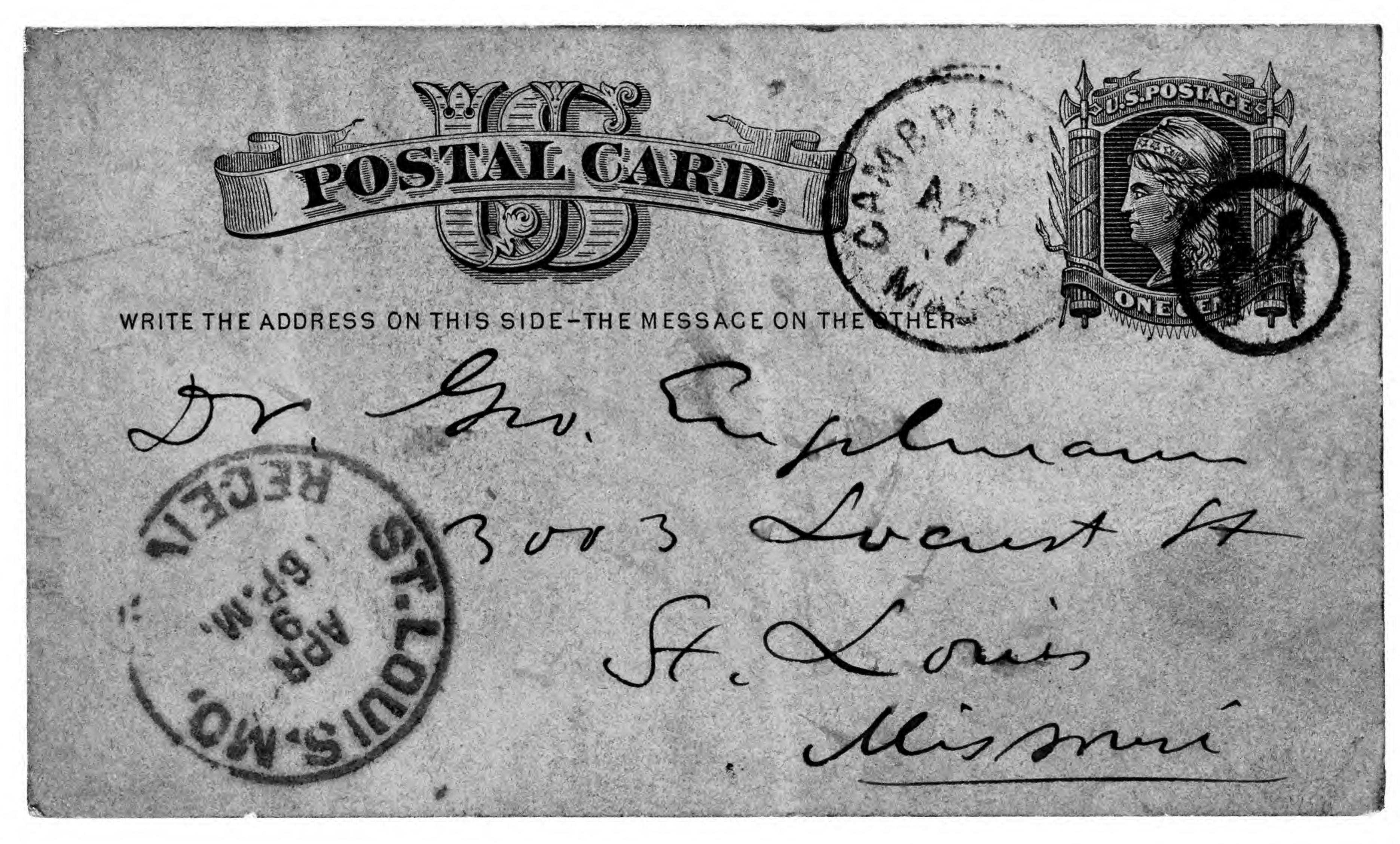


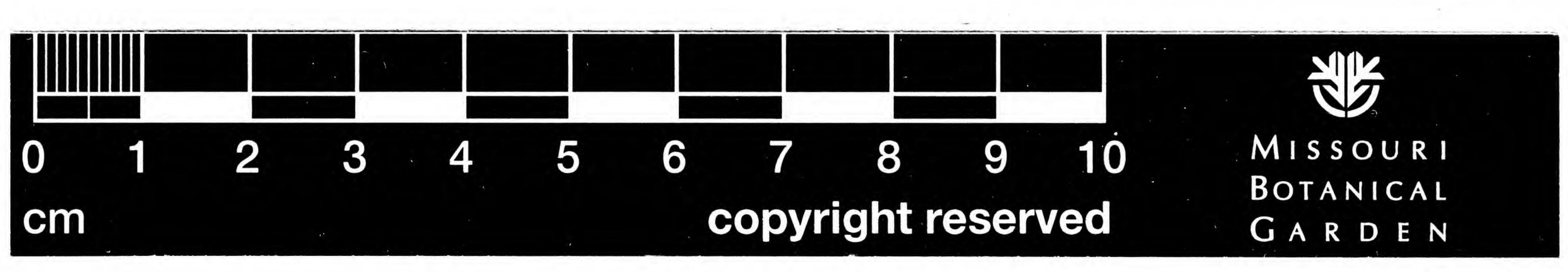




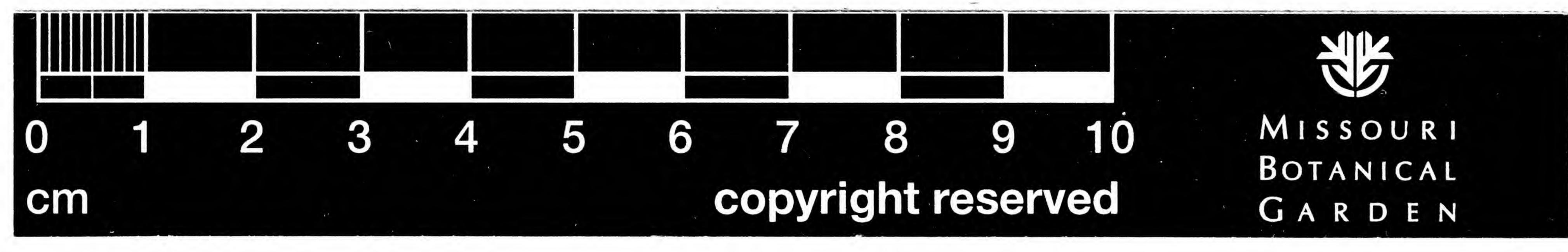




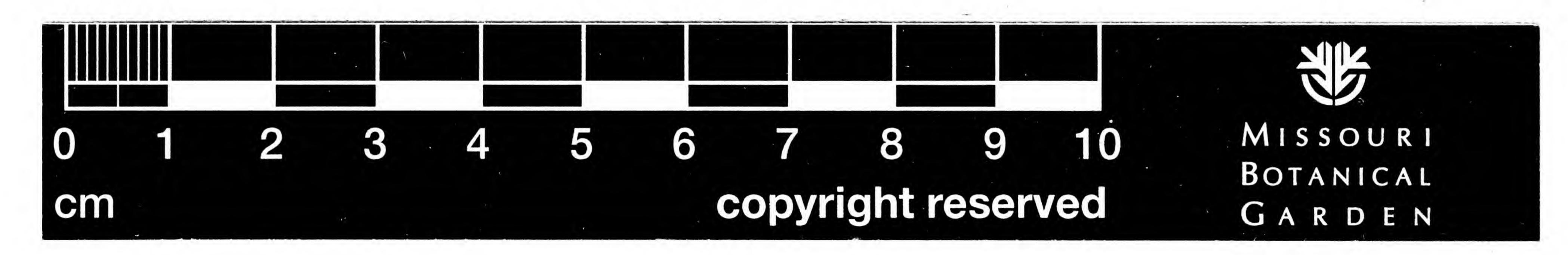




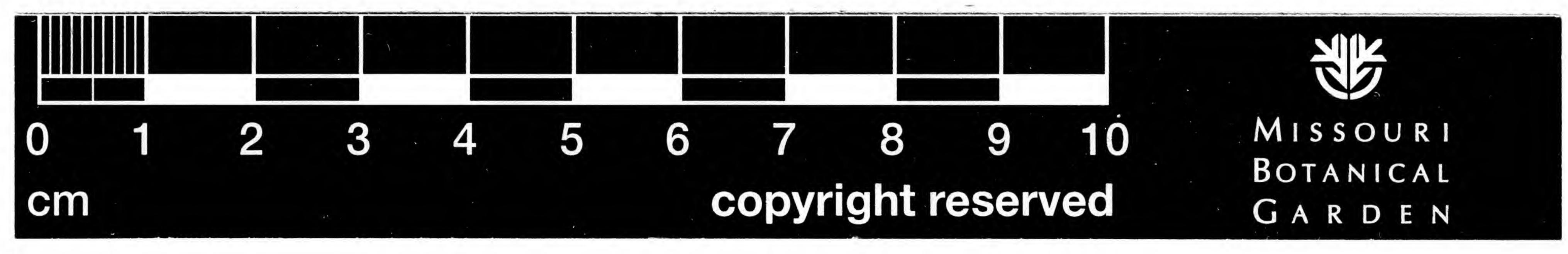
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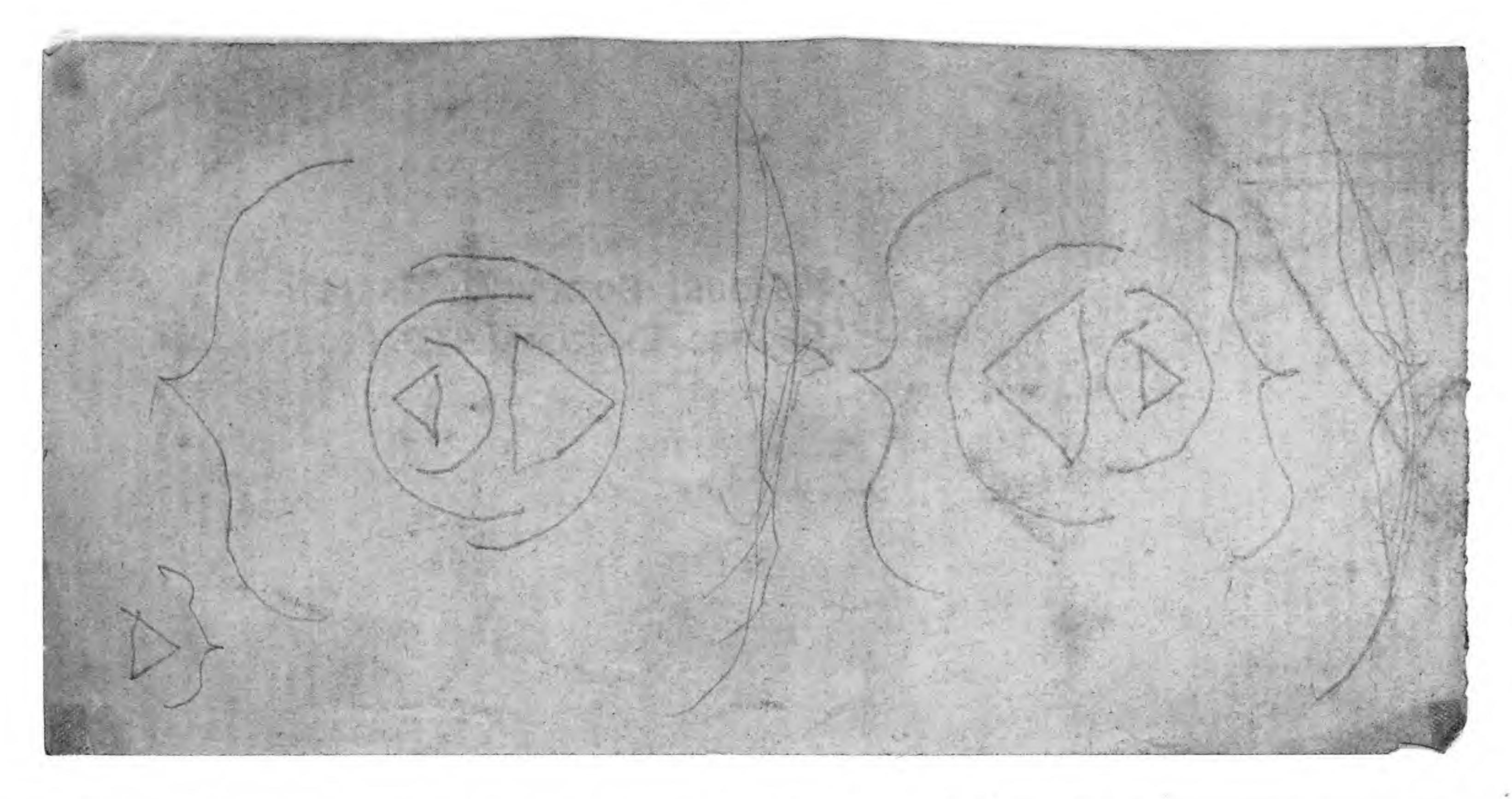


Medings, and especially at the next one, which will be held next Monday, My 15 4 ft 7 1-2 9. M., at the Polyteclinic, Hall, Chestnut St., bet 7th and 8th. C. V. RILEY, Recording Secretary.

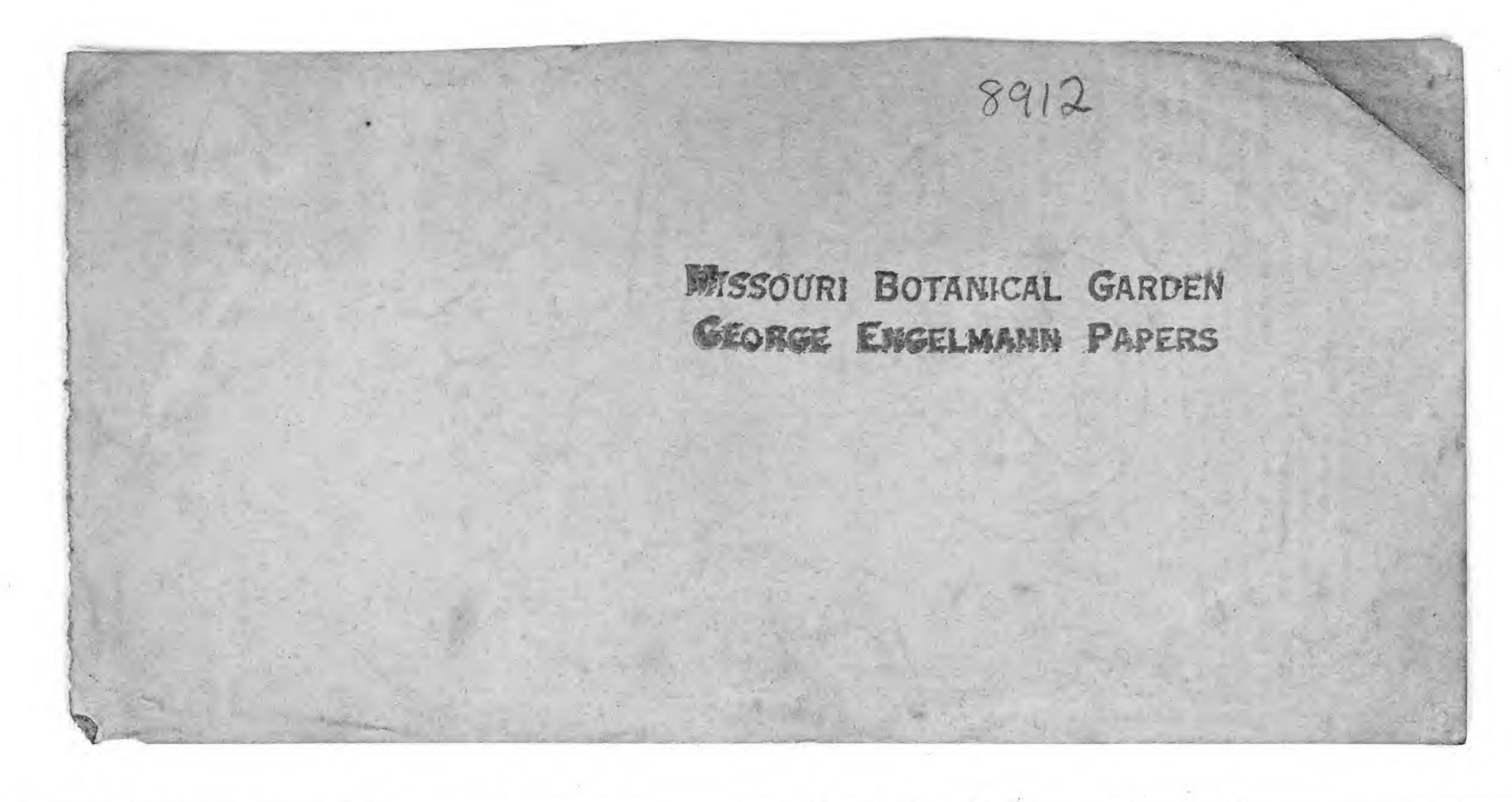














crystals, which are now deposited in the collection of the Smithsonian Institute; a few others are also in the hands of members of the party. We were travelling at the time by forced night marches with nearly worn out animals, seeking to gain a spring of water in a distant range of mountains. This desert was then entirely unexplored. I have but little doubt that more interesting materials are to be found at the same point.

The mountains of the former Territory of Utah promise a rich yield to the mineralogist. We know already of gold and silver ores in the east, west and south part of that district; of copper and lead ores in the south, and I have discovered the latter also in the centre of it; of specular iron ores and native sulphur in the Rocky Mountains and near Little Salt Lake; of rock salt in the mountains south-east of Utah Lake; of native alum near Salt Lake; of various other salts in the deserts; and of silicates, composing the granites, porphyries, diorites, trachytes, and lavas, nearly over the whole area.





ering. Dimensions.—Length, 0.20 of an inch; width, 0.18.

The Elwacrinus Kirkwoodensis is nearly allied to E.

(Pentremites) melo, from which it is distinguished by its much smaller size and less deeply excavated base. It also occupies a higher geological position.

Occurs in the St. Louis Limestone (Carboniferous) on the Pacific railroad near Kirkwood, St. Louis county, Missouri. MISSOURI 6 BOTANICAL

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GARDEN

cm

VI. The appearance of negative electricity was connected in

1861. No. times.	1862. No. times.	
30	32	with thunderstorms.
23	28	with rains without thunder and lightning.
20	4	with dry storms (without rain and without thun- der and lightning).
4	3	with snow.
1	0	with fog.
78	67	

VII. Relation of Rain and Snow to Electricity. Rain without thunderstorm was accompanied

	By Positive Electricity.		By Negative Electricity.		By no Electricity.	
	In 1861.	In 1862.	In 1861.	In 1862.	In 1861.	In 1862.
January	7	5	3	2		2
February	2	1	4			
March		5	0	4		
April	10	7	1	11	2	1
June	7					3



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TRANS. OF THE ACAD. OF SCIENCE.

interrupted descent and ascent took place from January to December, we find in 1862 some interruptions in the steps of that ladder. The electricity in February, 1862, is about four degrees higher than that of January, April somewhat higher than March, and July is the lowest instead of September in 1861. These trifling irregularities may be accounted for by differences in temperature and relative humidity, and by a greater number of thunderstorms in 1862. January of 1862, for instance, was so unusually rainy, that its relative humidity too was unusually high, diminishing thus electricity. But the general features of distribution of electricity throughout the year are apparent in both years, and we may in that respect divide the twelve months of each year into two or three groups. Computing the months which give the highest electricity and those which give the lowest in each year, we find that in both years the months of January, February, March, April, November and December exhibit the highest, and the months of May, June, July, August, September and October the lowest electricity. The first group gives

The aggregate monthly mean of 71.5 degrees of electricity in 1861 and 74.6 " " 1862

While the second group gives 29.0 " " 1861 and 25.7 " " 1862

The second group prevailed therefore in 1861, and the 1st

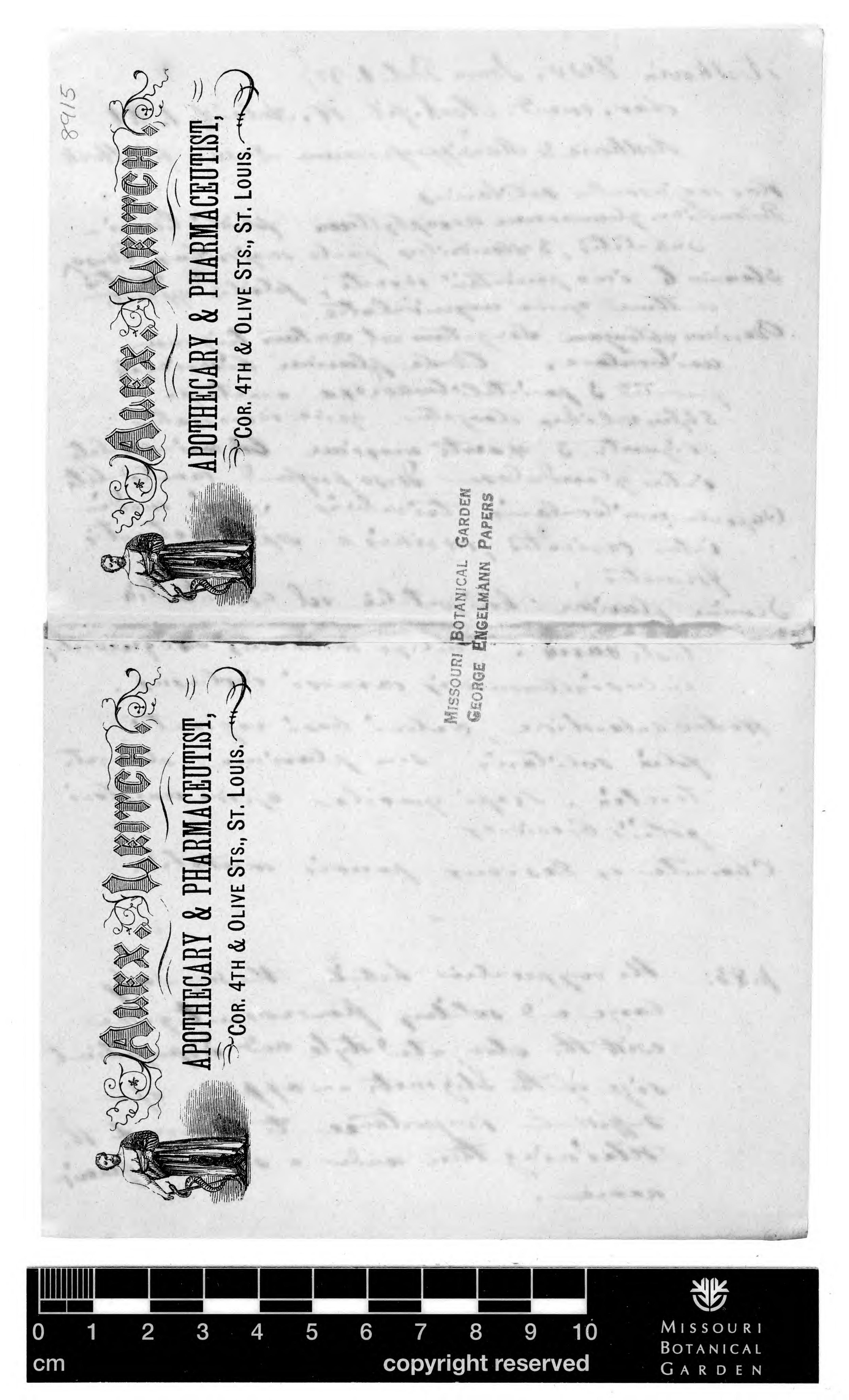


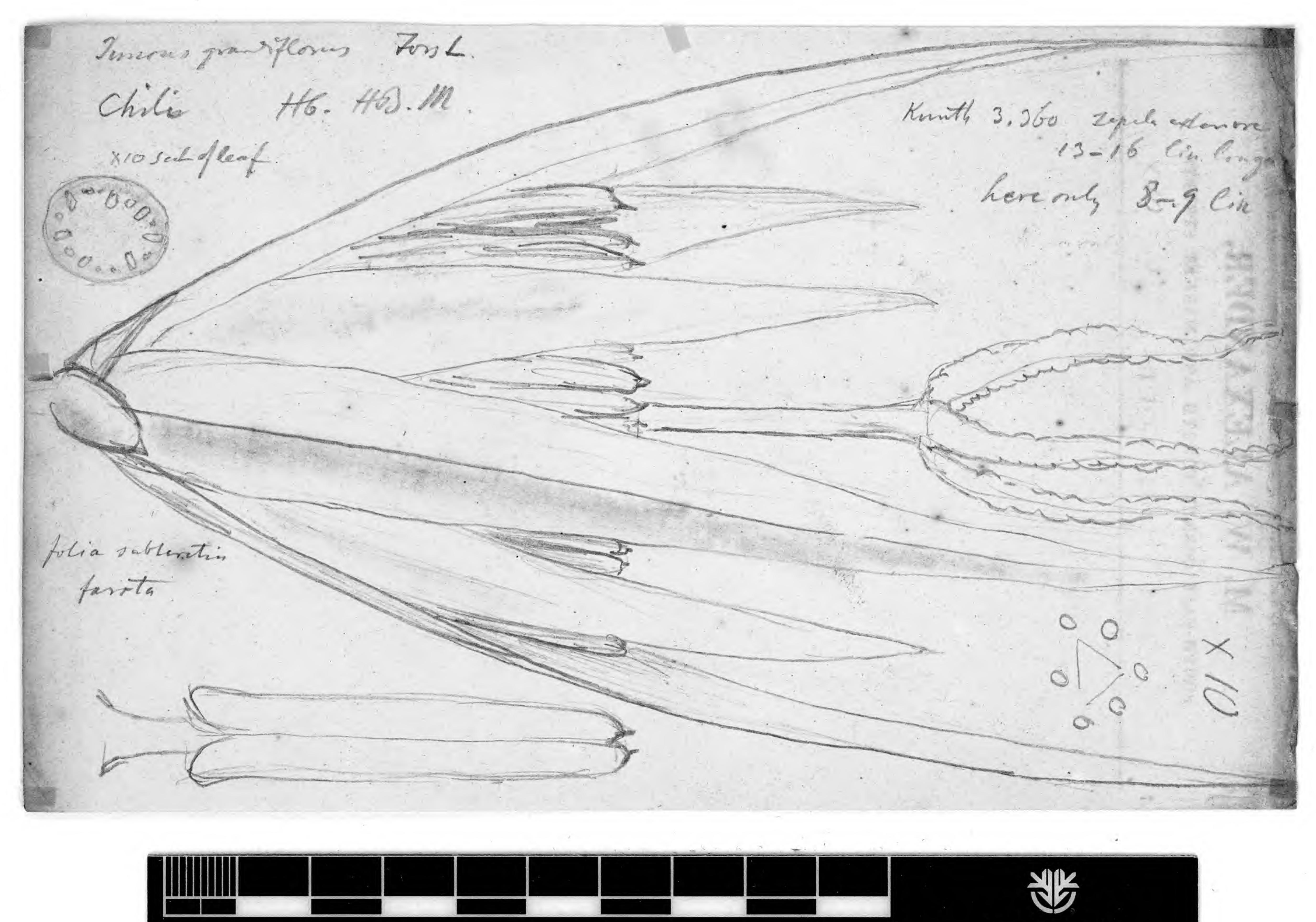
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